Instruction 1(b).

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	.C. 20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

OMB APPROVAL								
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Geary Richard S					2. Issuer Name and Ticker or Trading Symbol IONIS PHARMACEUTICALS INC [IONS]										all app Direc	onship of Reporti Il applicable) Director Officer (give title		10% O	wner
(Last) (First) (Middle) C/O IONIS PHARMACEUTICALS, INC. 2855 GAZELLE CT.						3. Date of Earliest Transaction (Month/Day/Year) 08/31/2021								Λ	belov EVP	v) , Chief De	velop	below) oment Of	fc
(Street) CARLSI (City)	BAD, CA	Λ 9	2010 Zip)		4. If A									6. Indi Line) X	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table	I - No	n-Deriva	tive S	Secu	rities	Acc	uired	, Dis	posed of	, or E	Benefic	cially	Own	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day)					Execution Date,				s Acquired (A) If (D) (Instr. 3, 4		4 and Second Ben Owr					7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	(A) o (D)	Price)	Transaction(s) (Instr. 3 and 4)				()
Common Stock 08/31/20					2021 08/3		31/20)21	J ⁽¹⁾		46	A \$3		.796	96 41,966			D	
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execui if any	xecution Date, any Month/Day/Year)		Transaction Code (Instr. 8)		vative rrities rired rosed) r. 3, 4 5)	Expiration D		ate	7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		r		9. Number derivative Securities Beneficially Owned Following Reported Transactio (Instr. 4)	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Explanation of Responses:

1. Reporting shares acquired under the Ionis Pharmaceuticals, Inc. Amended and Restated 2000 Employee Stock Purchase Plan on August 31, 2021. These shares may not be sold until February 28, 2022.

Remarks:

/s/Patrick R. O'Neil, attorneyin-fact

09/02/2021

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.